

PUSHCHINA, L.V., studentka VI kursa

Eotvos effect in airborne gravity observations. Trudy MIIGAIK
no.50:79-86 '62. (MIRA 16:7)

1. Kafedra vysshey geodezii, aerofotogeodezicheskiy fakul'tet
Moskovskogo instituta inzhenerov geodezii, aerofotos"yemki i
kartografii.

(Gravimetry) (Aeronautics in surveying)

ACC NR: AT6006262

(N) SOURCE CODE: UR/0000/65/000/000/0089/0096

AUTHOR: Pushchina, L. V.; Boyarskiy, E. A.

ORG: None

TITLE: The navigational data needed in aerogravimetric surveying

SOURCE: AN SSSR, Institut fiziki Zemli. Apparatura i metody morskikh gravimetricheskikh nablyudeniy (Apparatus and methods of marine gravimetric observations). Moscow, Izd-vo Nauka, 1965, 89-96

TOPIC TAGS: gravimetric survey, gravimetry, gravimetric analysis, aerial survey, photo interpretation

ABSTRACT: The position, course, and speed of the survey aircraft must be known in order to process aerogravimetric surveying data. After listing the necessary accuracy requirement and developing formulas for the Eotvoes effect correction, the author concentrates on a description of the aerophotographic method for navigational data determination which is of fundamental importance in the Soviet Union as well as in the USA. A detailed exposition is given of the procedures developed at the Institute of Earth Physics, AN SSSR (Institut fiziki Zemli AN SSSR). A table of coefficients for the Eotvoes correction estimates is also given. An analysis of various experimental results shows that the determination of the Eotvoes correction using visual observations is approximately as accurate as when calculating the correction from aerophotographs. The former requires, however, highly trained pilots.

Card 1/2

ACC NR: AT6006262

Orig. art. has: 13 formulas and 1 table.

SUB CODE: 08 / SUBM DATE: 29Oct65 /

Card 2/2 *116*

MISOZHNIKOV, V.M., kand. tekhn. nauk; PUSHCHINSKAYA, A.A., red.; ALEKSEYEVA,
T.V., tekhn. red.; IL'YUSHENKOVA, T.P., tekhn. red.

[Cold upsetting of reinforcements; a review] Kholodnaia vysadka kre-
pezhnykh detalei; obzor. Moskva, TSentr. in-t nauchno-tekhn. informa-
tsii mashinostroeniia, 1961. 48 p. (MIRA 14:11)
(Forging)

REVIN, I.A., inzh.; PUSHCHINSKAYA, A.A., inzh., red.; PADGUFAROVA,
S.I., red.; IL'YUSHENKOVA, T.P., tekhn. red.

[Adjusting equipment; survey] Ad'iustazhnoe oborudovanie;
·**obsor.** Moskva, TSintimash, 1960. 90 p. (MIRA 15:7)
(Rolling (Metalwork))--Equipment and supplies)

PUSHECHNIKOVA, L.V.

Schools of music in the capital. Gor.khoz.Mosk. 37 no.10:54-56 0
'63. (MIRA 17:2)

1. Zamestitel' nachal'nika otдела кадров i uchebnykh zavedeniy Upravleniya kul'tury Ispolnitel'nogo komiteta Moskovskogo gorodskogo Soveta deputatov trudyashchikhsya.

PUSHEK, B.S., kand. geogr. nauk; POPOV, I.V., kand. geogr. nauk; OBRAZTSOV, T.N., inzh.; FEDOROV, N.N., kand. tekhn. nauk; GRUSHEVSKIY, M.S., kand. tekhn. nauk; KRIVOSHEY, B.Z., inzh.; POPOV, O.V., star. nauchnyy sotr.; PIKUSH, N.V., kand. tekhn. nauk; LEVIN, A.G., kand. tekhn. nauk; ZHIDIKOV, A.P., inzh.; GAVRILOV, A.M., kand. geogr. nauk; KONDRAT'YEV, N.Ye., kand. tekhn. nauk, red.; URYVAYEV, V.A., kand. tekhn. nauk, red.; SHATILINA, M.K., red.; SOLOVEYCHIK, A.A., tekhn. red.

[Investigation of unsteady flow of water in the Tvertsa and Oredezkh Rivers] Issledovaniia neustanovivshegosia dvizheniia vody na rekakh Tvertse i Oredezkh. Pod red. N.E.Kondrat'eva i V.A.Uryvaeva. Lenin-grad, Gidrometeor. izd-vo, 1961. 287 p. 6 charts (in pocket)
(MIRA 14:8)

1. Leningrad. Gosudarstvennyy gidrologicheskiy institut.
(Tvertsa River—Hydrology) (Oredezkh River—Hydrology)

PUSHMANKOV, E. P.

"A Contribution to the Knowledge of the Development Cycle of the Larvae of
Cestodes Parasitic of the Liver of the Reindeer (*Cervus Tarandus*)," Dok. AN,
49, No. 4, 1945. c1945-.

S/123/60/000/017/002/016
ACC5/ACC1

Translation from: Referativnyy zhurnal, Mashinostroyeniye, 1960, No. 17, p. 81,
92017

AUTHOR: Pushchnikova, M.M.

TITLE: Modernization of a Lathe

PERIODICAL: Vestn. sovarkhoza (Voronezh), 1958, No. 12, pp. 55-56

TEXT: An old lathe was used for the deep drilling of large-size shafts (drilling diameter up to 60 mm, depth up to 1,000 mm). The stand carrying the motionless drill was mounted on the carriage; the guide screw was arranged between the slideways and connected with the feed shaft by a chain drive. The apron of the lathe was taken off; the nut was set up on the carriage and engaged by a coupling by means of a special handle. A special electromotor was provided for high speeds, which revolved the nut. The introduction of the equipment described made it possible to diminish the labor-consumption by 15-20% and decrease the breaking down of the drills. There is 1 figure. K.Ye.A.

Translator's note: This is the full translation of the original Russian abstract.
Card 1/1

CHERNYAK, R.Ya., kand.tekhn.nauk; SAL'KOV, Yu.G.; PUSHENKO, A.I.

Universal magnetic drum. Avtom. i pribl no.1:72-74 J~~e~~-Mr '63.
(MIRA 16:3)

1. Institut kibernetiki AN UkrSSR.
(Magnetic memory)

DYRO, P.R.; KAMNEVA, Z.P.; PUSHENKO, K.D.; SYTNIK, Z.D.;
YASTREBOV, A.S.

Removal of tomato product deposits from the heating surface
of heat exchangers. Kons. i ov. prom. 18 no.12:9-10 D '63.
(MIRA 17:1)

1. Ukrainskiy nauchno-issledovatel'skiy institut konservnoy
promyshlennosti.

ZAYDES, A.L.; MIKHAYLOV, A.N.; PUSHENKO, O.I.

Modified method of determining hydroxyproline. Biokhimiia 29
no. 1:5-7 Ja-F '64. (MIRA 18:12)

1. TSentral'nyy nauchno-issledovatel'skiy institut kozhevenno-
obuvnoy promyshlennosti, Moskva. Submitted Feb. 6, 1962.

MAKIN, A.I.; FUSHENKO, O.I.

Determination of reducing sugars in collagen by the anthrone method. Biokhimiia 28 no.4:583-588 1983. (MIRA 18:3)

1. Tsentral'nyy nauchno-issledovatel'skiy institut kozhevenno-shuvnoy promyshlennosti, Moskva.

BASHLAY, K., inzh.; BARANTSEV, I., inzh.; PUSHESHNIKOV, P., inzh.

Using simplified technological methods in making expanded clay
fillers. Stroil. mat. 4 no.4:4-7 Ap '58. (MIRA 11:5)
(Clay)

PUSENKOV, N.

Development of Soviet-Czechoslovak economic relations. Vnesh.
torg. 42 no.12:18-19 '62. (MIRA 15:12)
(Russia--Foreign economic relations--Czechoslovakia)
(Czechoslovakia--Foreign economic relations--Russia)

PUSHEV, G.; RUMYANTSEV, A.M., red.; KULAGIN, N., red.; GARSIA, L., red.;
DARONYAN, M., mladshiy red.; NOGINA, N., tekhn. red.

[Agrarian question and the national liberation movement;
materials of a discussion of Marxist agrarians held in
Havana and Bucharest in July-September, 1960] Agrarnyi vopros
i natsional'no-osvoboditel'noye dvizhenie; materialy obmena
mneniyami marksistov-agrarnikov, sostoiavshegosia v iuule-
sentiabre, 1960 g. v Gavane i Bukhareste. Pod obshchei red.
A.M. Rumiantseva. Moskva, Sotsekgiz, 1963. 531 p. (MIRA 16:6)

1. Chlen-korrespondent AN SSSR (for Rumyantsev).
(Underdeveloped areas-- Land tenure)

VOLCHEK, I., kandidat tekhnicheskikh nauk; NIKOL'SKIY, N., kandidat
tekhnicheskikh nauk; PUSHZEV, M., inzhener.

Develop the production of heat and sound insulating materials.
Stroi.mat., izdel.i konstr. 1 no.11:22-24 N '55. (MLRA 9:5)
(Insulation (Heat)) (Insulation (Sound))

GORYUNOVA, S.V.; OLOYEVSKAYA, N.S.; ORLEANSKY, I.A.; SCHAD'VA, G.N.;
PUSHEVA, M.A.

Blue-green algae as nitrogen fixators and their practical use.
Izv. AN SSSR Ser. biol. 30 no.1:88-102 Jan-F 1965.

(MIRA 12:2)

1. Institute of Microbiology, Academy of Sciences of the U.S.S.R.,
Moscow.

PUSHEV, M.

Wood and fiber finishing panels. Stroi. mat. izdel. i konstr. 1
no.5:29-32 My'55. (MLRA 8:11)

1. Glavnyy inzhener Moskovskogo zavoda organicheskoy sukhoy shtu-
katurki

(Wallboard)

PUSHEV, M.S., inzhener; SUKHENKO, S.D., inzhener.

Die-stamped compressed wood fiber furniture elements. Der.prom.
4 no.11:12-13 H '55. (MLRA 9:2)
(Wood, Compressed)

NIKOL'SKIY, V.N., kandidat tekhnicheskikh nauk; SHATAGINA, A.G., kandidat tekhnicheskikh nauk; ~~USHEV, M.S., inzhener.~~

Sound insulating sheets made of packing materials. Gor.khoz.Mosk.
29 no.1:23-24 J '55. (MLRA 8:3)
(Soundproofing)

PUSHEV, M.S.

Increase the production of hard wood fiber slabs for floors.
Gor.khoz.Mosk. 29 no.6:22-24 Je '55. (MLRA 8:8)

1. Glavnyy inzhener Moskovskogo zavoda organicheskoy sukhoy
shtukaturki.

(Floors) (Paper board)

PUSHEV, V.S.

Proizvodstvo drevesnovoloknistykh plit [Production of wood fiber tiles]. Moskva, Promstroizdat, 1952. 152 p.

SO: Monthly List of Russian Accessions, Vol. 6, No.2, May 1953

L 23536-66 EWT(1) SCTB DD

ACC NR: AP6013989

SOURCE CODE: UR/0216/65/000/001/0088/0102

AUTHOR: Goryunova, S. V.; Odoyevskaya, N. S.—Odoevskaya, N. S.; Orleanskiy, V. K.—Orleansky, V. K.; Rzhanova, G. N.; Pushova, M. A.

ORG: Institute of Microbiology, AN SSSR, Moscow (Institut mikrobiologii AN SSSR) ³⁴₁₃

TITLE: Nitrogen-fixing blue-green algae and their practical utilization ²

SOURCE: AN SSSR. Izvestiya. Seriya biologicheskaya, no. 1, 1965, 88-102

TOPIC TAGS: algae, nitrogen, fertilizer

ABSTRACT: The author describes the current theories of the process of nitrogen fixation by blue-green algae, the role of these algae in promoting the fertility of irrigated crops, a role that is only beginning to be explored, and the techniques and equipment for using these algae as fertilizer. Owing to the successful growth of these algae in bacteriologically pure cultures as well as the use of such research methods as the isotope method and the production of cell-free preparations, at present the range of investigations of the specificity of the process of assimilation of elementary nitrogen by these organisms has been greatly broadened. Intensive searches for active species and strains in nature as well as the development of techniques of mass-culturing of blue-green algae have opened new vistas for their direct utilisation in irrigated farming. The extensive natural

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ACC NR: AP6013989

occurrence of blue-green algae and the tried and tested experience of Asian farmers in using them as a valuable fertilizer, as well as the possibility of utilizing solar energy by means of these algae, cause them to rank first among the microorganisms potentially useful to promoting crop fertility in the national economy. Orig. art. has: 4 figures and 2 tables. [JPRS]

SUB CODE: 06, 02 / SUBM DATE: 13Dec63 / ORIG REF: 022 / OTH REF: 037

Cord 2/2

YUGOSLAVIA/Soil Science - Soil Genesis and Geography.

J.

Abs Jour : Ref Zhur - Biol., No 4, 1958, 15256

Author : M. Kurtagich, B. Pushich

Inst : -

Title : Cultured Soil and Cave Phenomena in Northern Dalmatia.
(Okul'turennyye pochvy i karstovyye yavleniya v
Severnoy Dalmatsii).

Orig Pub : Beograd, Jugoslov. drustvo proucav. zemljista, 1956,
130S.)

Abstract : No abstract.

Card 1/1

SREBYANSKIY, A.V., kand, tekhn. nauk; PUSHILIN, N.K., inzh.;
KASATKIN, V.S.

Reducing the wear of D-54 diesel engines due to starting.
Trakt. i sel'khoz mash. 31. no. 6:6-8 Je '61. (MIRA 14:6)

1. Voronezhskiy sel'skokhozyaystvennyy institut.
(Diesel engines)

Pushilov M.G.
KOZHEVNIKOVA, Z.N.; ROLLE, Ye.N.; PUSHILOV, M.G.; BUTORINA, I.V.;
ZAV'YALOVA, M.A.; KARPOV, M.M.

Second Leningrad municipal conference of young surgeons. Vest.khir.
78 no.1:140-145 Ja '57. (MLRA 10:3)
(SURGERY)

PUSHILOV, M.G.

Diagnosis of cancer of the cecum. Vop. onk. 6 no.4:85-86 Ap '60.
(MIRA 14:3)

(CECUM--CANCER)

USSR/ human and Animal Physiology. Metabolism.

Abstr Jour: Ref Zhur-Biol., No 20, 1958, 92931.

Author : Pushilova V.A.

Institution : Rostov-on-the-Don University.

Title : Vitamin A and E in Blood Serum of a Mare During the First Half of a Pregnancy

Orig Pub: Uch. zap. Rostovsk. un-t, 1956, 25, 11, 121.

Abstract. In 10 mares, beginning with the 30 - 35th day of pregnancy, determinations were made of the amount of vitamin A in the blood by the modified method of Vendt and Kuznetsov, vitamin E by the method of Kibardan, and the amount of carotin in the fodder by the method of Popandopul. Considerable seasonal fluctuation was noted in the amounts of A and E in the blood, and this was attributed to the quality of the fodder, climate, and other

Card : 1/2

USSR/Man and Animal Physiology. Metabolism.

T

Abs Jour: Ref Zhur-Biol., No 20, 1958, 92931.

conditions The amount of E in the blood was less in mares of the first year of mating than in those with previous pregnancies. A noticeable decrease was observed in the amount of A and E in bloods of all the horses in August and September. It is recommended that the horses be fattened during these months with a vitamin regime and growing wheat and carrots, which are especially rich in carotin. - L. M. Kashchevskaya.

Card : 2/2

PUSHILOVA, V. A. (Co-author)

~~SECRET//NOFORN, X, Z, S.~~

Gershenovich, Z. S. and Pushilova, V. A. - "Glycolysis of the blood of cancer patients," Trudy Rost. rentgeno-radiol. i onkol. in-ta,, Issue 2, 1948, p. 19-26

SO: U-3566, 15 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 14, 1949).

PUSHIN, G.A.

Operation of the consolidated, medical and prophylactic unit of
Kuybyshev District, Sverdlovsk, without a district health department.
(MIRA 12:4)
Zdrav. Ros. Feder. 3 no.3:20-24 Mr '59.

1. Iz kafedry organizatsii zdavookhraneniya (zav. - dots. N.M. Mamzina)
Sverdlovskogo meditsinskogo instituta (dir. - prof. A.F. Zverev)
(SVERDLOVSK--HOSPITALS)

PUSHIN, G.A.; NICHKOVA, Z.S.

Organization of medical care for industrial workers by an open system .
in Sverdlovsk. Zdrav.Ros.Fed. 3 no.10:22-26 0 '59. (MIRA 13:1)

1. Iz Sverdlovskogo gorzdravotdela (zav. - kand.med.nauk Ye.I. Mi-
lyutina).
(SVERDLOVSK---MEDICAL CARE)

KATS, M.Ye., inzh.; MOTIN, G.I., inzh.; PUSHIN, A.K., inzh.

Remodeling scraper feeders for milled peat. Elek.sta. 31
no.2:87-89 F '60. (MIRA 13:5)
(Stokers, Mechanical)

PUSHIN, F. Ye. (R). Опрыскиватели. [Sprayers.]—Mechanization of Plant Protection, Bull. Pl. Prot., Leningr., Ser. III (Control measures and implements), 1936, 8, pp. 7-24, 8 figs., 1936.

A tabulated account is given of comparative working tests which were carried out in 1935 in the Crimea of German, American, and Russian power spraying apparatus under orchard, vineyard, and field conditions. The best practical results are stated to have been obtained with the tractor-driven apparatus 'X' constructed by OMVIZR [Mechanization Section of the Pan-Soviet Institute for Plant Protection] works, which was shown to be able to spray 1,700 apple trees (5 to 40 years old, growing close together in rows 8 to 10 m. apart) in an 8-hour working day, with a spray output of 30 l. per minute, and only required two men to work it. Next in all-round efficiency came the horse-driven 'Pioneer' sprayer of the 'Vulcan' Works, with a working capacity of 1,300 trees per day, and a tractor-driven sprayer of the same works with a working capacity of 2,280 trees per day. The tests showed the presence in the Russian sprayers of a number of structural and other defects, which were reported to the respective works, with suggestions for their elimination. While not wholly adapted structurally to the conditions in the Crimea, the American sprayers, such as 'Friend' and 'Bin' [?Bean] [R.A.M., viii, p. 658; xi, p. 385], are outstanding by the simplicity of their construction, the resistance to wear and tear of the pump plungers, and their ease in movement, features which should be embodied, as far as possible, in the Russian apparatus.

ASB-SLA METALLURGH
KROV STIRNITSA
SANDRO - 11 ONV GSE
COLLISITONE
LIDON SCHACTY
COLLISIT ONE ONV LSI

While none of the apparatus tested was entirely satisfactory for work in the local open vineyards, the 'Pioneer' sprayer appeared to be the most suitable, and modifications are suggested for its improvement.

SOLUBILITY OF POTASSIUM PERSULFATE IN WATER AND SOME PHYSICO-CHEMICAL CONSTANTS OF ITS SOLUTION. N. A. PUSHTIN and O. KOVACH. *Dokl. Akad. Nauk SSSR* 2, No. 1, 25-31 (1961). - Analytical methods for determining the solubility of potassium persulfate in water were studied. The system $\text{H}_2\text{O} + \text{K}_2\text{S}_2\text{O}_8$ was studied by means of thermal analysis in the temperature range 0-100°. A eutectic point was found corresponding to 0.343% $\text{K}_2\text{S}_2\text{O}_8$ at -0.100°. With increase in concentration of the salt from 0 to 0.6% and the sp. gr. of the soln. increase, although exact figures were not obtained. Increase in temp. from 0° to 100° effects an increase in soly from 0.35 to 0.44%. F.P. lowering gives values 1.5 times higher than theoretical. J. G. T.

AS 8-36 A METALLURGICAL LITERATURE CLASSIFICATION

CIA-RDP86-00513R001343620009-3"

(A) Rhenium and its compounds. N. A. PUSKIN. *Bull. soc. chim. rev. Yevgodar. 2*,
111 28(1931). A review of work on Re, its prepn, phys. properties, compds. and detn-
by reduction of the sulfide with H_2 in a quartz crucible at high temp. The following
compds. were studied: Re_2O_7 , ReO_3 , Re_2S_7 , ReS_2 , $ReCl_5$, $ReCl_4$, ReO_4 decomposes on
heating into Re_2O_7 and O_2 . J. G. TOWNS

BC

PROCESSES AND PROPERTIES INDEX

A-1

Amphoteric nature of organic oxygen compounds. N. A. PUSKIN and R. ZAVADINOV (Bull. Soc. Chim. Yougoslav., 1933, 4, 23-30).—The fusion diagrams of the systems NH_4Ph -piperonal and $\text{p-C}_6\text{H}_4\text{NH}_2$ -camphor do not give evidence of compound formation; $\text{p-C}_6\text{H}_4\text{NH}_2$ forms a compound with 1 mol. of $\text{o-C}_6\text{H}_4(\text{CO})\text{O}$, m.p. 195°, and with 2 mole. of coumarin, m.p. 42°. R. T.

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

SECTION	SECTION	SECTION	SECTION
1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24
25	26	27	28
29	30	31	32
33	34	35	36
37	38	39	40
41	42	43	44
45	46	47	48
49	50	51	52
53	54	55	56
57	58	59	60
61	62	63	64
65	66	67	68
69	70	71	72
73	74	75	76
77	78	79	80
81	82	83	84
85	86	87	88
89	90	91	92
93	94	95	96
97	98	99	100

J. H. Reedy

Properties of pentaerythritol tetranitrate. N. A. Pushin,
B. Popovitch R. Nikolic and R. Zivadinovic. *Bull. Ser-
chim. rev. Yougoslav. S, 8S-102* (in German 192) (1934). --
Pentaerythritol tetranitrate prepd. on a semiindustrial
scale possesses 2 modifications with a transition point at
185°. The heat effect of the transition is greater than that
of crystn. It is a chemically stable explosive with an
explosion temp. at 215°. Its sensitiveness to shock can be
reduced by admixt. of foreign substances. J. G. T.

1ST AND 2ND ORDERS																										3RD AND 4TH ORDERS																									
PROCESSES AND PROPERTIES INDEX																										PROCESSES AND PROPERTIES INDEX																									
Diagrams of some binary organic systems. XXII. 1. N. A. Pusthin and I. Sladovik. <i>Bull. soc. chim. roy. Belgique</i>, 5, 135-41(1934); cf. <i>C. A.</i> 27, 16.—The following 8 binary org. systems were investigated by means of thermal analysis: <i>p</i>-cresol—resorcinol; <i>p</i>-cresol—phenanthrene; <i>o</i>-cresol—phenanthrene; bornol—naphthalene; bornol—NHPh; bornol—urethan; BrOH—β-naphthylamine; BrOH—β-naphthylamine. The diagrams of all these systems consist of 2 branches intersecting at the eutectic point. In the cryst. state the components form only mech. mixts. J. G. Tolpin																																																			
ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION																																																			

(Handwritten mark)

Reaction of phosgene with hexamethylenetetramine.
N. A. Pushin and E. D. Zivadinovic. Bull. soc. chim. roy
Yougoslav. 6, 105-8 (1936). — A white amorphous compd.
 $\text{COCl}_2 \cdot 2\text{C}_6\text{H}_{12}\text{N}_4$, m. 187-90° with decompn., is formed by
the action of COCl_2 on $\text{C}_6\text{H}_{12}\text{N}_4$ in CHCl_3 soln; it is sol.
in H_2O , insol. in most org. solvents J G Tolpin

6

ASAC-SLA METALLURGICAL LITERATURE CLASSIFICATION

SECTION DIVISION	SECTION - MAP ONLY ONE	SUBSECTION TWO
ALUMINUM	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100	A B C D E F G H I J K L M N O P Q R S T U V W X Y Z AA AB AC AD AE AF AG AH AI AJ AK AL AM AN AO AP AQ AR AS AT AU AV AW AX AY AZ BA BB BC BD BE BF BG BH BI BJ BK BL BM BN BO BP BQ BR BS BT BU BV BW BX BY BZ CA CB CC CD CE CF CG CH CI CJ CK CL CM CN CO CP CQ CR CS CT CU CV CW CX CY CZ DA DB DC DD DE DF DG DH DI DJ DK DL DM DN DO DP DQ DR DS DT DU DV DW DX DY DZ EA EB EC ED EE EF EG EH EI EJ EK EL EM EN EO EP EQ ER ES ET EU EV EW EX EY EZ FA FB FC FD FE FF FG FH FI FJ FK FL FM FN FO FP FQ FR FS FT FU FV FW FX FY FZ GA GB GC GD GE GF GH GI GJ GK GL GM GN GO GP GQ GR GS GT GU GV GW GX GY GZ HA HB HC HD HE HF HG HI HJ HK HL HM HN HO HP HQ HR HS HT HU HV HW HX HY HZ IA IB IC ID IE IF IG IH II IL IM IN IO IP IQ IR IS IT IU IV IW IX IY IZ JA JB JC JD JE JF JG JH JI JJ JK JL JM JN JO JP JQ JR JS JT JU JV JW JX JY JZ KA KB KC KD KE KF KG KH KI KJ KL KM KN KO KP KQ KR KS KT KU KV KW KX KY KZ LA LB LC LD LE LF LG LH LI LJ LK LM LN LO LP LQ LR LS LT LU LV LW LX LY LZ MA MB MC MD ME MF MG MH MI MJ MK ML MN MO MP MQ MR MS MT MU MV MW MX MY MZ NA NB NC ND NE NF NG NH NI NJ NK NL NO NP NQ NR NS NT NU NV NW NX NY NZ OA OB OC OD OE OF OG OH OI OJ OK OL OM ON OO OP OQ OR OS OT OU OV OW OX OY OZ PA PB PC PD PE PF PG PH PI PJ PK PL PM PN PO PP PQ PR PS PT PU PV PW PX PY PZ QA QB QC QD QE QF QG QH QI QJ QK QL QM QN QO QQ QR QS QT QU QV QW QX QY QZ RA RB RC RD RE RF RG RH RI RJ RK RL RM RN RO RP RQ RR RS RT RU RV RW RX RY RZ SA SB SC SD SE SF SG SH SI SJ SK SL SM SN SO SP SQ SR SS ST SU SV SW SX SY SZ TA TB TC TD TE TF TG TH TI TJ TK TL TM TN TO TP TQ TR TS TT TU TV TW TX TY TZ UA UB UC UD UE UF UG UH UI UJ UK UL UM UN UO UP UQ UR US UT UU UV UW UX UY UZ VA VB VC VD VE VF VG VH VI VJ VK VL VM VN VO VP VQ VR VS VT VU VW VX VY VZ WA WB WC WD WE WF WG WH WI WJ WK WL WM WN WO WP WQ WR WS WT WU WV WW WX WY WZ ZA ZB ZC ZD ZE ZF ZG ZH ZI ZJ ZK ZL ZM ZN ZO ZP ZQ ZR ZS ZT ZU ZV ZW ZX ZY ZZ

Binary systems with arsenic tribromide as component
N. A. Pushin, J. Jelisevich, D. Keng and S. Ho. *Bull.*
for chim. ioy Yengoskiz, 7, 73 (in German) 1971 (1968).
An investigation of diagrams of the binary systems of
AsBr₃ with C₆H₆, PhCH₃, anthracene, phenanthrene, me-
dinitrobenzene, p-nitroaniline, ROH, CCl₃CHOH;
showed that no compdt. or solid solns. of any considerable
concn. are formed. Eight tables and 3 figs. are given
in the text. J. G. Tolpin

PUSHIN N. A.

Pushin, N. A. and Nikovskii, I. I.

Composition Diagrams of Binary Systems of Guaiacol and Amines as Well as Benzylamine and Phenols.

Justus Liebigs Annalen der Chemie, V. 532, 1937, pp. 294-9

Chem. Abst., V. 32, p. 519-9, 1938

Guaiacol (I) appears to exist in 2 modifications, -, stable from 30 to -3.5° , and -, stable below -3.5° . The m.-p. curves are given for the following systems. I- C_6H_6 has a eutectic with 65 mol. % C_6H_6 at 7.5° ; I-PhMe₂, eutectic at 60 mol. % of PhMe₂ at 16.3° . I-quinoline (II) show 2 eutectics at 32 and 85 mol. % of II at -0.5° and -28° ; piperidine (III) also shows 2 eutectics at 3 and 92 mol. % III at 25.5° and -10.5° . PhNHNH₂ (IV) has 2 eutectics at 35 and 85 mol. % of IV at -5.5° and 9° . I and II form an equimol. comp., m. 12° with III, III.2I, m. 70° ; an. with IV, I.2IV, m. 15° . PhCH₂NH₂ (V) gives the following compds: V. PhOH, m. 22° , V.3PhOH, m. 15° eutectics at 18 and 35 mol. % of V, at 14.7° and 5.5° ; V.o-cresol, m. 7.5° , eutectic at about 31 mol. % V and at about -15° ; V.m-cresol, m. 36.4° , eutectic at about 19 mol. % V and about -20° ; V.p-cresol, m. -6° ; V.3p-cresol, m. 20° , eutectic at 15.5 mol. % V at 18° ; V.o-ClC₆H₄OH, m. 55° , eutectic at 5 mol. % V and 31%, transformation pt. at 50 mol. % V and 16° ; V.I, m. 15.5° , V.3I, m. 32° , eutectic at 8.5 mol. % V and 24° , transformation pt. 50 mol. % V and 15.5°

1ST AND 2ND ORDERS										3RD AND 4TH ORDERS									
PROCESSES AND PROPERTIES INDEX																			
Melting-point diagrams of binary mixtures of halides of sulfur, phosphorus, arsenic, antimony, bismuth, tin and aluminum. N. A. Pashin and J. Makuts. <i>Bull. soc. chim. roy. Yougoslav.</i> 9, 20-28 (in German 40) (1938); cf. C. A. 32, 4800⁹.—Addnl. tables are given. M. W. B.																			
ASB-51A METALLURGICAL LITERATURE CLASSIFICATION																			
SIGNI SYMBOL										SIGNI SYMBOL									
GROUPS										GROUPS									

2

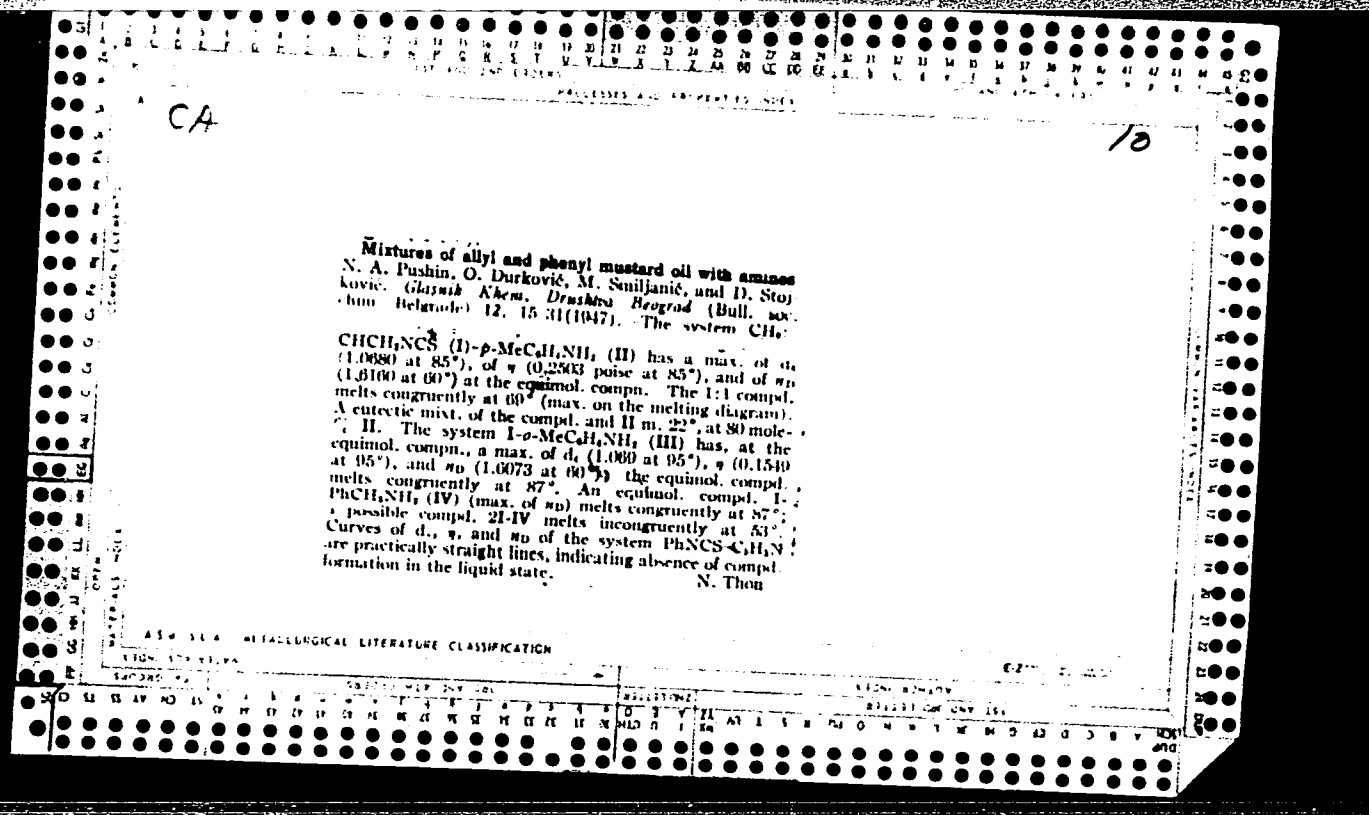
2-1

Binary systems containing arsenic trichloride or 5-chloro-5:10-dihydrophenarazine. N. A. PUSHEV and K. S. HAUSMANOVICH (Bull. Soc. Chim. Yougoslav., 1968, 9, 85-86).—The fusion diagrams of the binary systems with AsCl_3 suggest the compounds $\text{AsCl}_3 \cdot \text{NHPh}_2$, m.p. 75° ; $\text{AsCl}_3 \cdot 2o$, m.p. 146° , 3m, m.p. 168° , and $2p\text{-C}_6\text{H}_4\text{Me-NH}_2$, m.p. 200° . 5-Chloro-5:10-dihydrophenarazine does not give compounds with NHPh_2 or $\text{OOPh-CH}_2\text{Cl}$, but gives a 1:5 compound, transition point 36° , with AsCl_3 . R. T.

ASH 12.4 METALLURGICAL LITERATURE CLASSIFICATION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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1ST AND 2ND ORDERS										PROCESSES AND PROPERTIES INDEX										100 AND 4TH ORDERS									
Binary system phenylhydrazine-p-chlorophenol. N. A. PUNIN and D. M. DIMITRIJEVIC (Bull. Soc. Chim. Yougoslav., 1969, 10, 17-24).—The fusion diagram consists of two sets of curves, corresponding with stable and metastable conditions, and suggests a 2:1, m.p. 33°, a 1:1, m.p. 27°, and a 1:2, m.p. 16°, compound, in addition to a compound of uncertain composition which appears to exist in the metastable region. R. T.																													
ASB-51A METALLURGICAL LITERATURE CLASSIFICATION																													
REGION 1										REGION 2										REGION 3									
SUBORD. #1										SUBORD. #2										SUBORD. #3									
100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000																													



1ST AND 2ND ORDER		PROCESS AND PROPERTY INDEX		3RD AND 4TH ORDER	
<i>Cf</i> Heat of mixing of acetic acid with pyridine and quinoline. N. A. Pashin, A. V. Fedjushkin, and B. Krgovik. <i>Bull. Ser. chim. Belgrade</i> 11, No. 1/2, 12-24(1940-46)(Pub. 1947)(in Serbian).—Different concns. of HOAc were mixed with pyridine and quinoline, and the heats of mixing detd. In the absence of water, a biacetate complex of quinoline is formed in the liquid phase: $C_9H_7N \cdot 2C_2H_3O_2$. The pyridine complex is probably also a biacetate. In aq. soln. the complex of pyridine and HOAc is equimol., as in the cryst. state. The sp. heats of HOAc, pyridine, quinoline, and their mixts. were detd. at various temps. M. L. Nielsen					
ASB-51A METALLURGICAL LITERATURE CLASSIFICATION					
SIGNATURE		SIGNATURE		SIGNATURE	
SIGNATURE		SIGNATURE		SIGNATURE	

1ST AND 2ND ORDERS										3RD AND 4TH ORDERS									
PROCESSES AND PROPERTIES INDEX																			
CA 2 The specific gravity, viscosity, and melting points of the mixtures of sulfuric acid with mono-, di-, and trichloroacetic acid. N. A. Pushin and G. Stanojević. <i>Bull. ser. chim. Belgrade</i> 11, No. 1/2, 33-40 (1940-48) (Pub. 1947) (in Serbian).—The d., viscosity, and m.p. of mixts. of H₂SO₄ with mono-, di-, and trichloroacetic acid were obtained. For all 3 of the systems the d. curves are practically linear, the viscosity curves pass through a max., and the m.p. curves show a eutectic. No evidence was obtained for the formation of complexes of definite compn. in the liquid phase. M. L. Nielsen																			
ASM-A1A METALLURGICAL LITERATURE CLASSIFICATION																			
1ST AND 2ND ORDERS										3RD AND 4TH ORDERS									

Binary systems containing trinitrotoluene and halogen compounds of titanium, tin, phosphorus, arsenic, antimony, and bismuth. N. A. Pustlin, Lj. Nikolic, I. Parhomenko, A. Radojcin, N. Vasojevic, and J. Velicki. *Bull. soc. chim. Belgrade* 11, No. 1/2, 25-32 (1940-46) (Pub. 1947) (in Serbian) (English summary). Binary systems contg. trinitrotoluene (I) and $TiCl_3$, $SnCl_4$, $SbBr_3$, PBr_3 , $AsCl_3$, $AsBr_3$, $SbCl_3$, $SbBr_3$, or $BiBr_3$ were studied by the method of thermal analysis. An equimol. addn. compd. was found for I and $SnCl_4$, the only one showing compd. formation. $TiCl_3$, $SnBr_4$, and PBr_3 were partially miscible in liquid I; the halides of As, Sb, and Bi formed mechanical mixts. with I in the cryst. phase. M. L. Nielsen

M. L. Nielsen

ASM-51A METALLURGICAL LITERATURE CLASSIFICATION

[illegible]

Melting-point diagrams of binary systems containing trichloroacetic acid. N. A. Fushin and I. I. Rikovich. *Russ. Chem. Revs.* 1947, 16, 190-40. (Publ. 1947) (in Serbian) (English). Summary. — Binary mxts. of $\text{CCl}_3\text{CO}_2\text{H}$ (I) and R_2H , piperonal, camphor, coumarin, R_2OH , malonic acid, stearic acid, phthalic anhydride, and C_6H_6 , were studied. Equilibrium addn. compds. were found for I and R_2H , piperonal, camphor, and possibly also R_2OH . Another addn. compd. was observed with piperonal: $3,4\text{-CH}_2\text{OC}_6\text{H}_4\text{CH}_2\text{O} \cdot 2\text{CCl}_3\text{CO}_2\text{H}$. With coumarin, the compd. was $\text{CCl}_3\text{CO}_2\text{H} \cdot 2\text{C}_6\text{H}_4\text{CH}_2\text{CH}_2\text{CO}_2\text{H}$.

M. L. Nielsen
A. T. Blomquist and
Franklin H. Baldwin (Cornell Univ., Ithaca, N.Y.).
J. Am. Chem. Soc. 70, 20-30(1948).—Ketene dimer (I) (S_4 C.) in 200 cc. CHCl_3 , treated at room temp. with 17.8 g. $(\text{CH}_3\text{CO})_2\text{NiBr}$ in 700 cc. CHCl_3 , the vol. of the mixt. reduced to 400 cc. by *distn.* at atm. pressure, and the filtrate reduced 1 hr. with 10 cc. abs. EtOH and 2 drops EtONa, gives 43% $\text{AcCHBrCO}_2\text{Et}$. Chloromethylation with 2,4- $\text{Cl}_2\text{C}_6\text{H}_3\text{NiCl}$ in CHCl_3 and reaction with EtOH give 35% $\text{AcCHClCO}_2\text{Et}$. The formation of the α -halo esters indicates the structure for I of $\text{CH}_3\text{C}(\text{O})\text{C}(\text{O})\text{CH}_3$, since the alternative structure $\text{CH}_3\text{CMe}(\text{O})\text{CO}$ should yield XCH_2 -

$\text{COCH}_2\text{CO}_2\text{Et}$. In these formulations, it is assumed that Ziegler's reagents (C.I. 37, 50129) halogenate the allyl position in oxygenated unsatd. compds. C. J. W.

117 AND 118 ORDERS										119 AND 120 ORDERS									
PROCEDURES AND PROPERTIES INDEX																			
Refractive index of liquid mixtures. V. Systems with formic acid. N. A. Pashin, P. Matavulj, I. I. Rikovski, and M. Nenadovic. <i>Publ. ser. chim. Belgrade</i> 11, No. 3/4, 73-80 (1960-68) (Pub. 1947) (in Serbian); cf. <i>C.A.</i> 26, 1828-9; 27, 18, 820. Liquid mixts. of formic acid with aniline, methylaniline, dimethylaniline, pyridine, and quinoline were studied. From the deviations of n from the mean arithmetic value it was concluded that complexes composed of two mols. of formic acid and one mol. each of the amines exist in these liquid mixts. M. L. N.										2									
ASR-5LA METALLURGICAL LITERATURE CLASSIFICATION																			
117 AND 118 ORDERS										119 AND 120 ORDERS									
117 AND 118 ORDERS										119 AND 120 ORDERS									

1ST AND 2ND EDITIONS										3RD AND 4TH EDITIONS									
PROCESSES AND PROPERTIES INDEX																			
COMMON ELEMENTS		2 ca Amphoteric character of chemical compounds. N. A. Frobin. <i>Bull. soc. chim. Belgrade</i> 11, No. 3/4, 1-17 (1940-48) (Pub. 1947) (in Serbian).—The component parts of chem. compds. are amphoteric, being either electropos. or electroneg. depending upon the other part of the compd. The stability of the compd. is related to the difference in the chem. potentials of the interacting parts. M. L. Nielsen																	
COMMON VARIANTS INDEX																			
OPEN MATERIALS INDEX																			
ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION																			
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FROM LIVING LAM																			

1ST AND 2ND SERIES										PROCESSING AND PROPERTIES INDEX										3RD AND 4TH SERIES									
<i>2</i> The limits of the crystalline and the liquid state of matter. N. A. Pashin: <i>Glasnik Khim. Drustva Beograd</i> (Bull. soc. chim. Belgrade) 12, 1-14(1947) (English summary).—Tammann's representation of the solid-state field as a closed region, with obligatory liquefaction at very low temps. and under very high pressure, lacks exptl. and theoretical confirmation. The correct definition of the crit. pressure of a liquid is the max. pressure under which the substance can still exist in the liquid state and above which it passes into the solid or gaseous state. The field of the liquid state on the temp.-pressure diagram is comprised between the curves connecting the crit. temp., the crit. pressure, and the triple points. N. Thon																													
ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION																													
147082 2										183080 117 017 021										183117 017 017 111									

PUSHIN N. A.

Heats of mixing of picric, oxalic, and citric acids with amines, camphor, and cinnamic acid in acetone and aqueous solution. (N. A. Pushin and S. Abramov, *Dokl. Akad. Nauk SSSR*, 197(1917) (English summary). - By the criterion of a max. on the curves of the heat of mixing of dil. solns. in acetone, picric acid forms equimol. compds. stable in dil. soln. with PhNH_2 , $\text{C}_6\text{H}_5\text{N}$, *o*-, *m*-, and *p*- $\text{MeC}_6\text{H}_4\text{NH}_2$, *o*- and *p*- $\text{C}_6\text{H}_4\text{NH}_2$, and $\text{PhCH}_2\text{CHCO}_2\text{H}$. The heats of mixing at the max. are, in the above order, 29.6, 28.3, 27.2, 27.5, 18.4, 17.7, 10.0, and 0.7 cal./g. Curves of the heat of mixing of picric acid with PhNH_2 and camphor, and of oxalic and citric acids with the above compds. show no max., i.e. indicate no compd. formation. Owing to the low soly., in Me_2CO , of oxalates of PhNH_2 , *p*- $\text{MeC}_6\text{H}_4\text{NH}_2$, and $\text{C}_6\text{H}_5\text{N}$, and of the citrate of $\text{C}_6\text{H}_5\text{N}$, the corresponding amines can be used as pptn. reagents for the corresponding acids, and the reverse. N. Abramov.

117 AND 118 INDEX										119 AND 120 INDEX									
PROCESSES AND PROPERTIES INDEX																			
117 AND 118 INDEX										119 AND 120 INDEX									
Heat of mixing of naphthalene with <i>m</i>-dinitrobenzene in acetone. N. A. Pushin and S. Altarac. <i>Glasnik Khem. Drustva Beograd (Bull. soc. chim. Belgrade)</i> 12, 98-100(1947).—The heat of mixing is a linear function of the compn., indicating complete dissocn. in soln. of the equimol. compd. known to exist in the solid state. N. Thou																			
ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION																			
FROM 117/118										FROM 119/120									
117 AND 118 INDEX										119 AND 120 INDEX									

Melting diagrams of binary systems with picric acid
N. A. Bushin and P. Kozuhar. *Glasnik Khim. Dravstva*
Beograd (Bull. soc. chim. Belgrade) 12, 101-8 (1947).
Picric acid forms congruently melting equimol. compds. with α,α' -inditine (I), m. 141°; α -picoline (II), m. 161°; quinoline (III), m. 209°; cinnamic acid (IV) m. 166°. Eutectic points are, resp. 93°, 27, 30 mole % I; 99°, 23 mole % II; 118°, 7 mole % III; 101°, 33 and 101°, 63 mole % IV. With α -nitronaphthalene, picric acid forms an equimol. compd. m. incongruently at 67°, eutectic at 49°, 85 mole %. No compds. are formed between picric acid and acetamide (eutectic at 49°, 74 mole %), ethylurethan (41°, 90), benzophenone (44°, 70), p-nitrotoluene (48°, 80), pentaerythritol tetrastearate (93°).
N. Thou

AS 431.3 L A METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND ORDERS										3RD AND 4TH ORDERS									
PROCESSES AND PROPERTIES INDEX																			
2																			
Melting diagrams of systems of formic acid and amines H. L. Bantle and N. A. Dushin. <i>Glasnik Khim. Drustvo. Beograd</i> (Bull. soc. chim. Belgrade) 12, 109-17 (1947). HCO_2H forms congruently melting equimol. compds. with: phenylhydrazine (I), m. 101°; α-naphthylamine (II), m. 127°; β-naphthylamine (III), m. 115°; benzidine (IV), m. 225°; benzylamine (V), m. 81°. Eutectic points are, resp. (temp., mole % HCO_2H): I 0.5°, 05; II 3°, 97 and 120°, 45; III -8.5°, 90 and 101°, 40; IV 113°, 20; V -9°, 90. With diphenylamine, HCO_2H forms 2 liquid layers, immiscible between 32 and 71 mole % HCO_2H. A compd. $\text{HCO}_2\text{H} \cdot 2\text{PhNH}_2$ melts at about 51°. Compds. are also formed with <i>o</i>- and <i>p</i>-toluidine, and with di-benzylamine (m.ps. not given). N. Thon																			
A 58-51 A METALLURGICAL LITERATURE CLASSIFICATION																			
1ST AND 2ND ORDERS										3RD AND 4TH ORDERS									

1ST AND 2ND CROSS										3RD AND 4TH CROSS									
PROCESSES AND PROPERTIES INDEX																			
<i>td</i> Melting-point diagrams of binary systems of ethylenediamine with diphenylamine, pinacol, diphenylcarbinol, triphenylcarbinol, and malicylaldehyde. N. A. Prishin and D. Dimarijovic. <i>Bull. ser. chem. Belgrade</i> 12, 206-12(1947)(in Serbo-Croatian).—Assuming that all chem. compds. are amphoteric, it is concluded that strong amines could form compds. with weak amines and alcs. Thermal studies of binary systems supported this view by indicating that ethylenediamine (I) gives an addn. compd. with diphenylamine of the compn. $[(C_6H_5)_2NH]_2 \cdot I$; I forms equimol. addn. compds. with pinacol and triphenylcarbinol. I forms a compd. of the formula $[(C_6H_5)_3CHOH]_2 \cdot I$ with diphenylcarbinol and gives an addn. compd. with malicylaldehyde of the compn. $[C_6H_4(OH)CHO]_2 \cdot I$. Mason Hayek																			
ASB-5LA METALLURGICAL LITERATURE CLASSIFICATION																			
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Refractive indexes of liquid mixtures. VI. Systems of toluene with amines and phenols. N. A. Pushkin, P. Matavulj, and I. I. Rikovski. *Bull. soc. chim. Belgrade* 13, 38-44(1948); cf. C.A. 42, 2167a.—From the n of liquid mixts. of toluene with NH_2Ph , NH_2NHPH , $\text{NH}_2\text{CH}_2\text{Ph}$, piperidine, quinoline, PhOH , o - or p - $\text{C}_6\text{H}_4\text{ClOH}$, o - or m -cresol, or guaiacol it is concluded that the assoc. moles. of those substances are partly dissociated in soln. in toluene. No such conclusions could be drawn from the n of mixts. of toluene with NMe_2Ph , $\text{C}_6\text{H}_5\text{N}$, p -cresol, or thymol. VII. Mixtures of aniline with phenols. *Ibid.* 45-9.—From the deviation of the n of liquid mixts. of NH_2Ph with PhOH , o - $\text{C}_6\text{H}_4\text{ClOH}$, or thymol from the mean arithmetic value, it is inferred that NH_2Ph forms with PhOH , o - $\text{C}_6\text{H}_4\text{ClOH}$, or thymol equimol. compds. which do not decomp. in the liquid state. No such conclusions could be drawn from the

n of mixts. of NH_2Ph with p - $\text{C}_6\text{H}_4\text{ClOH}$, m -, or p -cresol, or guaiacol. B. A.

1957

PUSHIN, N. A.

N. A. Pushin, Mixtures of allyl and phenyl mustard oil with amines. P. 1278.

It is proven that allyl mustard oil with o-toluidine and benzylamine gives characteristic maxima on the curves of melting and on the refractive indices, with the first two amines the same characteristic maxima are on the specific gravity and viscosity curves, pointing to the existence of equimolecular compounds in the crystalline as well as in the liquid phase.

December 6, 1946.

SO: Journal of General Chemistry (USSR) 18. (80) No. 7 (1948).

PUSHIN, N. A.

FA 30/47-15

USSR/Chemistry - Systems, Formic Acid Sep 48
Chemistry - Refractive Index

"Refractive Index of Fluid Mixtures: V, Systems
With Formic Acid," N. A. Pushin, P. Matavul', I.
I. Rykovskiy, M. Nenadovich, 7 pp

"Zhur Obshch Khimii" Vol XVIII, No 9

Investigates refractive index of liquid mixtures
of formic acid with aniline, methylaniline, di-
methylaniline, pyridine, and quinoline. Shows
it is highly probable that complex compounds,
composed of two formic acid molecules and one
amine molecule, exist in these mixtures. Sub-
mitted 28 Jul 47.

FDB

30/49T3

PUSHIN, N. A.

N. A. Pushin, Binary systems composed of halides of silicon, titanium, tin, arsenic, antimony and bismuth with various organic compounds. p. 1599

Investigations on the phase diagrams of sixteen binary systems including silicon tetra chloride, titanium tetrachloride, arsenic tri-iodide and antimony tri-iodide with naphthalene; of arsenic tri-iodide with phenanthrene; of arsenic trichloride with aniline, with 1,3,4-xylidine and toluylene; of silicon tetrachloride, tin tetrachloride and arsenic tribromide with aso-benzole; of antimony-tri-iodide and bismuth tribromide with nitro-benzene; of antimony-tri-iodide with meta-nitro-toluene; of antimony tri-iodide with m-nitro-phenol, and of tin-tetrachloride with o-nitro-anisole.

June 13, 1947

SO: Journal of General Chemistry (USSR) 28, (80) No 9 (1948)

Pushin, N. A.

Determination of the index of refraction of water solutions of some organic compounds. N. A. Pushin. *Glasnik Khim. Drustva* 19, No. 5, 267-76 (1954). Referat. *Zhur. Khim.* 1956, No. 390. — The n_D of ethylenediamine, piperidine, *tert*-BuOH, $\text{CHCl}_2\text{CO}_2\text{H}$ (I), and $\text{CCl}_3\text{CO}_2\text{H}$ (II) in aq. solns. at different concns. were detd. On the basis of the deviations of the n_D from the additive values in the double systems formed by the water and each of the compds., it is concluded that the solns. contain the dihydrates $\text{C}_2\text{H}_4(\text{NH}_2)_2 \cdot 2\text{H}_2\text{O}$, $\text{C}_4\text{H}_{10}\text{NH} \cdot 2\text{H}_2\text{O}$, and $(\text{CH}_3)_3\text{COH} \cdot 2\text{H}_2\text{O}$. I and II do not form hydrates. N. Vasileff

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PNSHIL, E. T.

Sprayers, Trud na Doshchitsu Kastenii, Seria 3, no. 6, 1930, pp. 7-21
123.02 1945

SO - SO A SI - 53, 15 December 1953

РБСНД, /Е. П.

Tests of Large Bursting Apparatus under Standard Conditions, Itogi Nauchno-Issledovatel'skikh Rabot Vsesoiuznogo Instituta Zashchity i Avtomatizatsii, Part 2, 1987, pp. 427-429. 823.92 L441

SA - S A 81 10-01, 14 December 1983

RUSIA, Y. S.

New Machine Universal Sprayer-duster, Itogi Nauchno-Issledovatel'skikh
Rabot Yessoluznogo Instituta Zashchity Rasteni za 1936 Goda, part 2, 1937, p.
131-139. 123.12 1941

SO - SI A SI 1-53, 15 December 1953

1. 3. 1. 1.

Stalin's Orders for the Preparation of Anti-Air Warfare in Sprayers,
Sov. i. Vozdush., no. 2, 1951, pp. 37-40. 10-5a13

SO - S:4A S. 10-53, 15 December 1953

PUSHIN, Yu.N., inzh.; KRASNOV, I.D., inzh.

Bending of elliptic shells of revolution by constant internal pressure. Energomashinostroenie 9 no.7:32-34 JI '63.

(Elastic plates and shells)

(MIRA 16:7)

NEBYTOVA-LUK'YANCHIKOVA, Mariya Nikolayevna, prof.; ORLOVA, Sulamif'
Abramovna, dotsent; PUSHINKOVA, Nina Alekseyevna, kand.med.nauk;
LUR'YE, N.A., red.; CHUNAYEVA, Z.V., tekhn.red.

[Children's diet in a family] Pitaniye detei v sem'e. Lenin-
grad, Medgiz, 1962. 231 p. (MIRA 15:2)
(CHILDREN--NUTRITION)

BARDYSHEV, G.M.; BERLIN, I.Z.; VAYNSHTOK, M.Z.; LEVIN, S.I.; PAVLOV, V.N.;
FUSHKANTSEV, B.N.; SAMOCHETOV, V.F.; SEMENOV, M.G.; SOKOLOV, A.Ya.;
KHUVES, E.S., inzh.; EMMANUEL', T.P.; GRIGOR'YEV, K.P., inzh., red.
[deceased]; DENISENKOVA, L.M., red.; D'YACHENKO, V.M., red.; SAVEL'YEV,
Z.A., tekhn. red.

[Technical handbook for workers in the grain-elevator industry] Tekhni-
cheskii spravochnik rabotnika elevatornoj promyshlennosti. Pod obshchei
red. Grigor'eva K.P. i Khuvesa E.S. Moskva, Izd-vo tekhn. i ekon. lit-
ry po voprosam khleboproduktov. Pt.1. 1960. 339 p. (MIRA 14:11)
(Grain elevators)

PUSHKINA, Z.V.

Geochemistry of the Usa manganese deposit. Dokl. AN SSSR 135
no.1:176-178 N '60. (MIRA 13:11)

1. Geologicheskii institut AN SSSR. Predstavleno akademikom.
N.M.Strakhovym.
(Kuznetskiy District--Manganese ores)

NKBYTOVA-LUK'YANCHIKOVA, M.N., professor; PUSHINKOVA, N.A., kandidat
meditsinskikh nauk

Pathogenic therapy in exudative diathesis. Vop.okh.mat. i det. 1
no.3:46-53 My-Je '56. (MLRA 9:9)

1. Iz Pediatricheskogo nauchno-issledovatel'skogo instituta (dir. -
prof. A.L.Libov) Leningrad.
(INFANTS--DISEASES) (DIATHESIS)

PUSHINEOVA, N. A.

"Riboflavin in Various Types of Children's Food," Vop. Ped. i. Okhran. Mater

i. Det., 16, No. 5, 1948. Dept. Child Nutrition, & Biochemistry Growth,
Republican Res. Ped. Inst., -c1948-.

Republican Sci. Res. Pediatrics Inst. (Mbr., Dept. Child Nutrition, -c1948-)

Mbr., Lab. Biochemistry of Growth, -c1948-.

CHERKESOV, A.I.; PUSHINOV, Yu.V.

Interaction of stilbene-2,2'-disulfonic acid of 4,4'-bis
[<1-azo>-4-hydroxybenzene] with ions of certain bivalent
metals. Zhur. anal. khim. 18 no.11:1392-1393 N '63.

(MIRA 17:1)

1. Saratovskiy gosudarstvennyy pedagogicheskiy institut.

L 58897-65 EWT(m)/EPF(n)-2/EWP(j)/T/EWP(t)/EWP(b) Pc-4/Pu-4 IJP(c) JD/WW/
JG/RM

ACCESSION NR: AP5016093

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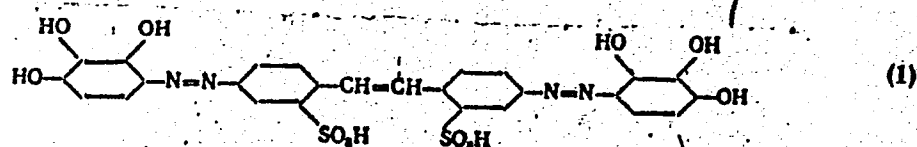
AUTHOR: Cherkesov, A. I., Pushinov, Yu. V.

TITLE: New reagents for zirconium

SOURCE: Zhurnal analiticheskoy khimii, v. 20, no. 6, 1965, 665-670

TOPIC TAGS: zirconium determination, complex compound, bisazo compound

ABSTRACT: In an attempt to find a highly selective reagent whose complex with zirconium would be stable in strongly acidic media, a search was made among bisazo compounds with long conjugated bonds which would contain readily solvated groups (hydroxyl, carboxyl, etc.) to increase the stability of the reagent and its zirconium complexes to acids. These conditions were met by two reagents:



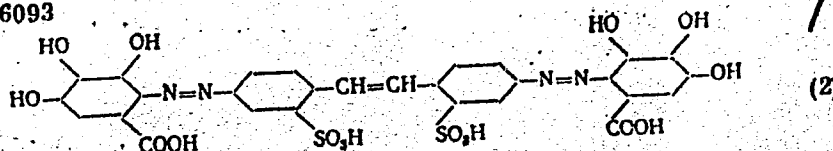
Stilbazogall I and

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ACCESSION NR: AP5016093

Stilbazogall II



Both reagents have double pyrogallol and gallic acid groups, and were synthesized by diazotizing 4, 4'-diamino-2, 2'-stilbenedisulfonic acid, then combining the bisdiazazo compounds with pyrogallol and gallic acid, respectively. The second reagent is more stable in acid media (1-2 N HCl) and is more selective toward zirconium than the first; this is due to the formation of hydrogen bonds with the nitrogen atoms of the azo groups. Spectrophotometric studies of both reagents and their complexes were carried out, and the instability constants of the complexes were determined. The sensitivity of the reactions for zirconium was estimated by determining the oscillating charges f of the colored complexes: for stilbazogall I $f = 0.700$, and for stilbazogall II $f = 0.290$ and 0.300 (in units of electronic charge). Orig. art. has: 3 figures, 2 formulas and 3 tables.

ASSOCIATION: Saratovskiy gosudarstvennyy pedagogicheskiy institut (Saratov State Pedagogical Institute)

SUBMITTED: 09May64

ENCL: 00

SUB CODE: IC

NO REF SOV: 018

OTHER: 002

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1. The first of the two main points is that the

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CHERKESOV, A.I.; PUSHINOV, Yu.V.

Accelerated determination of magnesium in dolomites by the
method of differential photometry. Zav. lab. 30 no.9:1053-
1054 '64. (MIRA 18:3)

1. Saratovskiy gosudarstvennyy pedagogicheskiy institut.

CHERKESOV, A.I.; PUSHINOV, Yu.V.

Gravimetric method for the determination of magnesium, barium, zinc, manganese, cobalt, and nickel by means of brilliant yellow. Zhur. anal. khim. 20 no. 11&1191-1195 '65
(MIRA 19:1)

1. Saratovskiy gosudarstvennyy pedagogicheskiy institut. Submitted September 14, 1964.

PUSHINOV, Yu.V.; CHERKESOV, A.I.

"Stilbazogall-1" as reagent for the photometric determining
of molybdenum(VI). Izv.vys.ucheb.zav.; khim.i khim.tekh. 8
no.4:559-563 '65. (MIRA 18:11)

1. Saratovskiy gosudarstvennyy pedagogicheskiy institut,
kafedra khimii.

ACC NR: AP6019017

(N)

SOURCE CODE: UR/0032/66/032/001/0022/0023

AUTHOR: Pushinov, Yu. V.; Cherkasov, A. I.

ORG: Saratov Pedagogical Institute (Saratovskiy pedagogicheskiy institut)

TITLE: Photometric determination of zirconium in magnesium alloys by stilbazogall II reagent

SOURCE: Zavodskaya laboratoriya, v. 32, no. 1, 1966, 22-23

TOPIC TAGS: zirconium, magnesium alloy, aluminum alloy, colorimetric analysis, photometric analysis

ABSTRACT: A method is offered for the photometric determination of 0.0n% Zr in Mg alloys by using stilbazogall II reagent consisting of stilbene-2,2'-disulfoacid-4,4'-bis[azo-1,2-carboxy-4,5,6-trioxybenzene]. The 0.1-0.2 g sample is dissolved in 30 ml of cold HCl (1:1). If the solution is opaque, then 0.5 ml H₂O is added and the solution is evaporated in a sand bath until dry. The dry residue is dissolved in a small amount of 2 N HCl, transferred into a 100 ml measuring flask, brought to the mark by the same acid, and thoroughly mixed. The aliquot samples of 2-4 ml are placed into glasses and the freshly oxidized stilbazogall II solution having a concentration of $1 \times 10^{-3} M$ is added in 1 ml portions until the volume reaches 10 ml. The total acidity of the solution should be $\sim 1 N$ by HCl. Absorbance is measured immediately by a FEK-M photocolormeter with a green light filter in the cell having a layer thickness of

Card 1/2

ACC NR: AP6019017

10 mm. The blank sample solution containing the same reagents is used for comparison. The Zr content is determined from the calibration curve. The error of analysis is 2%. The method can also be used for the determination of Zr in Al alloys. Orig. art. has: 1 table.

SUB CODE: 07/ SUBM DATE: none/ ORIG REF: 001

Card 2/2

URINSON, Yu.P.; PUSHINSKAYA, M.M.

Siderocytes and sideroblasts. Probl.gemat.i perel.krovi no.7:
25-30 '61. (MIRA 14:9)

1. Iz fakul'tetskoy terapevticheskoy kliniki (zav. - prof.
T.S. Istamanova) I Leningradskogo meditsinskogo instituta
imeni akad. I.P. Pavlova.
(ANEMIA) (ERYTHROCYTES)

12

Riboflavin content in a variety of child foods. N. A. Pushinkova. *Voprosy Pediat. i Otkrany Materinskoi i Detskoi* 16, No. 6, 35-6(1948).—Analysis of riboflavin in a variety of milk products (from Leningrad sources) gave per 100 ml.: in dairy milk 60-88 γ, market milk 20-80 γ, milk regenerated from milk powder 48-80 γ. Exposure of milk to light for 24 hrs. leads to av. loss of 30%; elimination of light cuts the loss to 0.3%. Buttermilk and kefir are much higher in riboflavin: 80-120 γ; porridge-type foods vary in their content: those based on polished rice are devoid of riboflavin, those with barley are highest (25 γ per 100 ml.); oatmeal type is intermediate (18 γ), as is pearl barley (15 γ). G. M. Kowlapoff

ASB-5LA METALLOGICAL LITERATURE CLASSIFICATION

SECTION 418 DIV 322

SECTION 418 DIV 322

SECTION 418 DIV 322

PUSHKANTSEV, B.N., inzh.; CHAK, A.B., inzh.

Mechanization of grain loading. Mekh. i avtom. proizv. 17
no.12:20-25 D'63.
(MIRA 17:2)

FROLOV, Konstantin Pavlovich; PUSHKANTSEV, Boris Naumovich; BYALYY, Semen Mikhaylovich; RASHCHUPKINA, L.I., red.; MAYOROV, V.V., tekhn. red.

[Receiving and processing food and forage corn at grain receiving stations] Priem i obrabotka prodovol'stvenno-furazhnoi kukuruzy na khlebopriemnykh punktakh. Moskva, 1962. 11 p. (MIRA 16:6)

1. Moscow. Vystavka dostizheniy narodnogo khozyaystva SSSR. Pavil'on "Khraneniye i pererabotka zerna."
(Corn (Maize)) (Grain elevators)

PUSHKANTSEV, B., inzh.

For a timely and high-quality machinery repair at grain procurement stations. Muk.-elev.prom. 25 no.3:3-5 Mr '59.

(MIRA 12:6)

1. Nachal'nik otdela tekhnicheskoy eksploatatsii Ministerstva khleboproduktov RSFSR.

(Grain-handling machinery--Maintenance and repair)

PUSHKANTSEV, B.; UVAD'YEV, V.

Fulfillment of the construction plan is the basis for the success of procurements in the coming year. Muk.-elev.prom. 20 no.9:4-5 S '54. (MLRA 7:12)

1. Vsesoyuznoye ob'yedineniye Zagotzerno (for Pushkantsev)
2. Ministerstva zagotovok SSSR (for Uvad'yev)
(Grain trade)

PUSHKAR', Arnol'd Ignat'yevich; TKACHENKO, A.S., red.; MEMESHKINA, L.I.,
tekhn. red.

[Kurile Islands] Ostrova Kuril'skie. Iuzhno-Sakhalinsk, Sakhalin-
skoe knizhnoe izd-vo, 1960. 174 p. (MIRA 14:7)
(Kurile Islands--Description and travel)

PUSHKAR, E.G.

USSR/Pharmacology - Toxicology, Anti-inflammatory Agents.

U-6

Abs Jour : Ref Zhur - Biol., No 3, 1958, 13029

Author : Priselkov, M.M., Pushkar', E.G., Arkhipova, A.V.,
Kocherova, A.N.

Inst : -
Title : Decomposition of Pyramidon and Some Other Drugs by
Microorganisms.

Orig Pub : Aptech. delo, 1956, No 3, 38-43.

Abstract : It was demonstrated by growing E. coli, Proteus
Staphylococci on meat-peptone media containing
pyramidon, antipyrine or caffeine that multi-
plication of the organisms was retarded, especially in the
presence of pyramidon, and that their sugar fermentation
and proteolytic activity was suppressed. It was also shown
that microbes destroyed pyramidon and antipyrine
by the utilization of carbon and nitrogen.

Card 1/2

USSR/Pharmacology - Toxicology, Anti-inflammatory Agents.

U-6

Abs Jour : Ref Zhur - Biol., No 3, 1958, 13029

Proteus destroyed over one-half of the pyramidon present
in the medium in concentrations up to 0.5%.

Card 2/2

SACHKOV, V.I.; PUSHKAR', E.G.; GRIGOR'YEVA, M.P.; SPERANSKIY, A.I.

Some experimental data on the significance of properdin in collagen diseases. Vop.revm. 1 no.3:17-21 J1-S '61.

(MIRA 16:4)

1. Iz Gosudarstvennogo nauchno-issledovatel'skogo instituta revmatizma (dir. - deystvitel'nyy chlen AMN SSSR prof. A.I. Nesterov) Ministerstva zdravookhraneniya RSFSR.

(COLLAGEN DISEASES)

(PROPERDIN)

Pushkar' E.G.

PRISELKOV, M.M. [deceased], SAMSONOVA, M.N., PUSHKAR', E.G.

Microbial utilization of the alkaloids ditaine and quinine in life
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(ALKALOIDS)

(MICRO-ORGANISMS)

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Decomposition of aminopyrine and other medicinal preparations by microorganisms. M. M. Priselkoy, E. G. Pushkar, A. V. Arkhipova, and A. N. Kocherova (Pharm. Inst., Moscow). *Aptekhnos Delo* 5, No. 3, 83-84 (1956).—Solutions of aminopyrine, antipyrine, and caffeine Na benzoate in concns. of 0.25-3% slow down, but cannot prevent, the growth of *Escherichia coli*, *Micrococcus*, *Proteus vulgaris*, *Bacillus mycoides*, *B. subtilis*, and *Pseudomonas aeruginosa*. *P. vulgaris*, when grown on media contg. up to 0.5% aminopyrine, is able to destroy more than half of it in 24 hrs.

A. S. Mirkin

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